Bayer Technology Services

Safety Laboratory
accredited according to DIN EN ISO/IEC 17025

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DAC-PL-0028-97-20

Leverkusen, 2010-11-29

Dr. U. Heinz / H. Keldenich

Study-No.: **2010/01906e**

Study Report

Standard information requirements and classification (REACH & CLP)
for

PES Vorstufe 2342
(Castor Oil, reaction product with Soybean Oil)

EC-No: 919-697-8

Sponsor
Bayer MaterialScience AG
Dr. R. Werner
BMS-IO-HSEQ-PRA
Building B 211
Leverkusen
Federal Republic of Germany

Distribution List
Sponsor
Lotus-Notes-Mail: BMS-HSEQ-RPS-PK

1 Process Description / Assessment Task

The lab was asked to provide data on 'PES Vorstufe 1242' (batch-no. LB06603520) and subsequently, to derive the classification in the GHS system as well as to compile the standard information required according to Annex VII of the REACH Directive.

2 Tested Sample

The following chemical composition of 'PES Vorstufe 3242' was provided by the sponsor. 'PES Vorstufe 3242' is the reaction product of a transesterification of Castor Oil and Soybean Oil. The purity of the substance amounts 100 % (information from the sponsor).

3 Standard information required for REACH (EC Regulation No 1907/2006, Annex VII)

REACH Annex VII	Standard information	Method	Result	Comment
7.9	Flashpoint	EC-A 9 (DIN EN ISO 2719)	**T_f = 214.5 °C**	p_0 = 1013 hPa

4 Standard information required for CLP (Regulation on Classification, Labelling and Packaging of Substances and Mixtures, EC Regulation No 1272/2008, Annex 1)

Used test guidelines: UN-Recommendations on the Transport of Dangerous Goods
Manual of Tests and Criteria
fifth revised edition, 2009

C L P Annex 1	Class	Result	Comment	Criteria for classification
2.6	Flammable liquids	**not flammable liquid**	**T_f = 214.5 °C** p_0 = 1013 hPa	no classification
2.16	Corrosive to metals	**not corrosive to metals**	From the reaction product (transesterification of Castor Oil and Soybean Oil) it is not to be expected that the substance is corrosive to metals.	no classification

5 Annotations

All results relate to the tested samples exclusively. As the measured results are strictly depending on the used methodology, sophisticated expert know how is required for the election of the test methods and the interpretation of the results for to draw reliable safety technological conclusions in consideration of the plant and process conditions.
An extrapolation of the results of measurement beyond the statements of the report for to define process operations is not permitted in principle and needs contact with the plant and process safety department, respectively.

Author of test report
signed Keldenich
H.- P. Keldenich
Process and Plant Safety

Responsible for test report
signed Heinz
Dr. U. Heinz
Process and Plant Safety